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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/787,398	02/26/2004	Karen J. Klingman	86852SMR	4515 .	
7590 03/17/2006		EXAMINER			
Paul A. Leipold			MARTIN, LAURA E		
Patent Legal St	taff				
Eastman Kodal	Eastman Kodak Company		ART UNIT	PAPER NUMBER	
343 State Street		2853			
Rochester, NY	14650-2201		DATE MAILED: 03/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	1.
		10/787,398	KLINGMAN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Laura E. Martin	2853	
Period fo	The MAILING DATE of this communication	appears on the cover sheet with the	correspondence address	
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING sisons of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by steply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ODATE OF THIS COMMUNICATIO R 1.136(a). In no event, however, may a reply be ti riod will apply and will expire SIX (6) MONTHS from ratute, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication ED (35 U.S.C. § 133).	
Status				
2a)☐	Responsive to communication(s) filed on <u>0</u> This action is FINAL . 2b) Since this application is in condition for alloclosed in accordance with the practice und	This action is non-final. wance except for formal matters, pr		6
Dispositi	on of Claims			
5)	Claim(s) 1-16 and 32-58 is/are pending in the day of the above claim(s) is/are wither Claim(s) is/are allowed. Claim(s) 1-16 and 32-58 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and on Papers The specification is objected to by the Example drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the	drawn from consideration. Ind/or election requirement. Indicate the drawing(s) be held in abeyance. Secrection is required if the drawing(s) is of	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d	d).
Priority u	inder 35 U.S.C. § 119			
12) <u> </u>	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bustee the attached detailed Office action for a	nents have been received. nents have been received in Applicatoriority documents have been received in PCT Rule 17.2(a)).	tion No red in this National Stage	
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date <u>6</u> 129/05			

Office Action Summary

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14, 16 and 32-58 are rejected under 35 U.S.C. 102(b) as being anticipated by Sekiya (US 20020075353).

As per claims 1, 32, 43, and 54 Sekiya teaches an ink jet printing method, ink jet supply system, ink jet printer, and method of replenishing ink supply comprising the steps of: A) providing an ink jet printer that is responsive to digital data signals [0006]; B) providing an ink jet printhead comprising a nozzle array (figure 10A, element 73) comprising a plurality of nozzles, said nozzle array being dedicated to ejecting a given ink jet ink composition (figure 10A, elements 71B, 71C, 71M, and 71Y), wherein said nozzles are 20 microns or less in diameter [0080]; C) supplying said printhead with said given ink jet ink composition, said ink jet ink composition comprising particles wherein at least 90% by weight of said particles have a diameter that is less than 1/120th of the diameter of said nozzles (claim 1); and D) printing using said given ink jet ink composition in response to said digital data signals [0006].

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As per claims 2, 33, and 44, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein said nozzles are less than 18 microns in diameter [0080].

As per claims 3, 34, 45, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein said nozzles are less than 16 microns in diameter [0080].

As per claims 4, 35, 46, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein at least 90% of the particles are less than 1/150th of the diameter of the nozzles (claim 1; [0082]).

As per claim 5, Sekiya teaches an ink jet printing method wherein at least 90% of the particles are less than 1/150th of the diameter of the nozzles (claim 1; [0082]).

As per claims 6, 36, 47, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein at least 90% of the particles are less than 1/200th of the diameter of the nozzles (claim 1; [0082]).

As per claims 7, 37, 48, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer, wherein at least 90% of the particles are less than 1/200th of the diameter of the nozzles (claim 1; [0082]).

As per claims 8, 38, 49, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer, wherein the printhead comprises more than one nozzle array, each nozzle array being dedicated to ejecting ink of a different given ink jet ink

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composition [0072], wherein each given ink jet ink composition comprises particles wherein at least 90% of the particles are less than 1/120th of the diameter of the nozzles of the dedicated nozzle array [0082].

As per claims 9, 39, 50, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein the printhead comprises at least three nozzle arrays, said arrays being dedicated to ejecting cyan, yellow and magenta ink compositions respectively (figure 10A, elements 71B, 71C, 71M, and 71Y).

As per claim 10, Sekiya teaches an ink jet printing method wherein the particles are colorant particles [0042].

As per claims 11, 40, 51, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein the particles are pigments [0042].

As per claims 12, 41, 52, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein the particles are cyan pigments [0051].

As per claim 13, Sekiya teaches an ink jet printing method wherein the printhead is provided as part of the printer [0017].

As per claim 14, Sekiya teaches an ink jet printing method wherein the printhead is provided by an ink supply system comprising an ink supply and a printhead [0086].

As per claims 16, 42, 53, Sekiya teaches an ink jet printing method, ink jet supply system, and ink jet printer wherein the ink jet ink composition is an aqueous-based ink composition comprising a humectant and/or co-solvent (first solvent group [0065]).

As per claims 55, 57, and 58, Sekiya teaches a thermal printhead [0041].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sekiya (US 20020075353) in view of Rutland et al. (US 20030202039).

Sekiya teaches the ink jet printing method of claim 1; however, it does not disclose an ink jet printing method wherein the given ink jet ink composition is ejected from the nozzles of the nozzle array in droplets having an average drop volume of 5 pL or less.

Rutland et al. discloses an ink jet printing method wherein the given ink jet ink composition is ejected from the nozzles of the nozzle array in droplets having an average drop volume of 5 pL or less [0047].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the ink jet printing method of Sekiya with the disclosure of Rutland et al. in order to create a clearer image.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura E. Martin whose telephone number is (571) 272-2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura E. Martin

MANISH S. SHAH PRIMARY EXAMINER

3/13/06